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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/078,250	02/15/2002	Juha Rasanen	915-004.5	3250	
4955	7590 05/03/2006	EXAMIN		NER	
WARE FRESSOLA VAN DER SLUYS &			DANIEL JR, WILLIE J		
	ADOLPHSON, LLP BRADFORD GREEN, BUILDING 5			PAPER NUMBER	
755 MAIN STREET, P O BOX 224			2617		
MONROE,	CT 06468		DATE MAILED: 05/03/200	DATE MAILED: 05/03/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

<u> </u>	<del></del>	<del>,</del>			
	Application No.	Applicant(s)			
Office Astion Commence	10/078,250	RASANEN, JUHA			
Office Action Summary	Examiner	Art Unit			
	Willie J. Daniel, Jr.	2617			
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPL' WHICHEVER IS LONGER, FROM THE MAILING D. Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tir will apply and will expire SIX (6) MONTHS from a, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. ED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 28 N	lovember 2005.				
,— .	s action is non-final.				
,	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
• 4)⊠ Claim(s) <u>1-3,6-10 and 13-32</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-3,6-10 and 13-32</u> is/are rejected.					
7)					
8) Claim(s) are subject to restriction and/o	or election requirement.				
Application Papers					
	or.				
9) The specification is objected to by the Examiner.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
The call of declaration is objected to by the E.	Administration and attached office	, , , , , , , , , , , , , , , , , , ,			
Priority under 35 U.S.C. § 119					
12) ☐ Acknowledgment is made of a claim for foreign a) ☐ All b) ☐ Some * c) ☐ None of:		a)-(d) or (f).			
1. Certified copies of the priority documen		C NA			
2. Certified copies of the priority documen					
3. Copies of the certified copies of the pric		ed in this National Stage			
application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.					
- See the attached detailed Office action for a list	tof the certified copies not receiv	eu.			
Attachment(s)					
1) Notice of References Cited (PTO-892)	4) Interview Summar				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  Paper No(s)/Mail Date					
<ol> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date</li> </ol>	6) Other:	raterit Application (r 10-132)			
S. Patent and Trademark Office	· — — — — — — — — — — — — — — — — — — —				

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#### **DETAILED ACTION**

This action is in response to applicant's RCE amendment filed on 28 November 2005.
 Claims 1-3, 6-10, and 13-32 are now pending in the present application. This office action is made Non-Final.

### Continued Examination Under 37 CFR 1.114

2. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 28 November 2005 has been entered.

## Claim Rejections - 35 USC § 112

3. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 1, 22, 31, and 32 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

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a. Claim 1 recites the limitation "...a public telecommunication network..." in lines 1-2 of the claim.

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- b. Claim 22 recites the limitation "...a public telecommunication network..." in lines1-2 of the claim.
- c. Claim 31 recites the limitation "...a public telecommunication network..." in lines
   1-2 of the claim.
- d. Claim 32 recites the limitation "...a public telecommunication network..." in lines
  1-2 of the claim.

Regarding Claims 1, 22, 31, and 32, the claims include a limitation that is not supported by the specification as originally filed. The applicant is advised to review the cited subject matter of the specification (see pg. 8, line 35; pg. 19, lines 7-11, 20), which states "...telecommunication network..." and does not explicitly convey the claimed language "...public telecommunication network..." nor restricts the telecommunication network to be a "...public telecommunication network...". The Examiner respectfully requests the applicant to provide page(s), line(s), and figure(s) of the instant application that supports the limitation of the claim(s) and/or any supportive comment(s) to help clarify and resolve this issue(s).

## Claim Objections

4. Claim 32 is objected to because of the following informalities:

Claim 32 recites the limitation "...the multimedia call..." in line(s) "...." of the claim.

There is insufficient antecedent basis for this limitation in the claim. The Examiner suggests, for example, "...a multimedia call..." to provide proper antecedent basis for the limitation.

Appropriate correction is required.

# Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-3, 6, 8-10, 13, 16, 18-20, 22-25, and 28-32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bäckström (US 5,903,851) in view of Sayers et al. (hereinafter Sayers) (US 6,539,237 B1).

Regarding **claim 1**, Bäckström discloses a method for providing a supplementary call service in a public telecommunication network (e.g., PLMN and PSTN) (see col. 2, lines 53-57, 61-67; Fig.1), where a request for access to data or services provided by a remote host, comprising the steps of:

a) monitoring on a signaling path (e.g., connection) between mobile station (15) which read on the claimed "end terminals (5, 12)" a negotiation signaling for a multimedia call of respective call parties (see col. 3, lines 35-51), where a first connection is established and

interworking unit monitors the call circuit connection between a data terminal equipment and an application host by examining the contents of ARQ protocol frames,

said monitoring step being executed in an interworking function portion of one of said end terminals (see col. 4, lines 49-65; col. 5, lines 1-10; Fig. 4), where a data connection mode is initialized between the DTE (10) and the MS (15) and monitored at the MSC (30) for the data transfer and request of the call connection circuit;

- b) storing connection information detected in said monitoring step (see col. 4, lines 7-11), where the first or original call circuit connection is stored within the register (88) of the MSC (30),
- c) using said detected connection information to generate a signaling towards at least one of said end terminals (5, 12) to establish said supplementary call service, when said supplementary call service is invoked by one of said call parties (see col. 4, lines 18-31), where after a period of inactivity a second call circuit is requested by a data terminal equipment, subsequently comparing the current called party identification information with one stored in the MSC register for the first call circuit connection. Bäckström does not specifically disclose having the features said connection information defining at least one of a protocol used in the multimedia call between said call parties and a transcoding parameter used in the multimedia call; wherein said supplementary call service is a call hold supplementary service or a call transfer supplementary service. However, the examiner maintains that the features said connection information defining at least one of a protocol used in the multimedia call between said call parties and a transcoding parameter used in the

multimedia call; wherein said supplementary call service is a call hold supplementary service or a call transfer supplementary service was well known in the art, as taught by Sayers.

In the same field of endeavor, Sayers discloses the features said connection information defining at least one of a protocol used in the multimedia call between said call parties and a transcoding parameter used in the multimedia call (see col. 11, lines 19-23; col. 12, lines 6-29; col. 13, lines 1-55), where RIL3-CC, H.245, and SMS-PP provide transcoding parameters;

wherein said supplementary call service is a call hold supplementary service or a call transfer supplementary service (see col. 11, lines 19-23; col. 12, lines 6-29).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Bäckström and Sayers to have the features said connection information defining at least one of a protocol used in the multimedia call between said call parties and a transcoding parameter used in the multimedia call; wherein said supplementary call service is a call hold supplementary service or a call transfer supplementary service, in order to provide conventional cellular systems that have basic service with the enhanced functionality of supplementary services, as taught by Sayers (see col. 6, lines 25-30; col. 7, lines 10-13).

Regarding **claim 2**, the combination of Bäckström and Sayers discloses every limitation claimed, as applied above (see claim 1), in addition Bäckström further discloses a method according to claim 1, wherein said supplementary call service is applied to a data call (see col. 1, lines 19-21; col. 5, lines 16-18), where data communication is provided via wireless access to the Internet.

Regarding **claim 3,** Bäckström, as applied to claim 2 above, discloses establishing communication between mobile station (15) and remote host (65) (see Fig. 2). Bäckström does not specifically disclose having the feature wherein said data call is a video call. However, the examiner maintains that the feature wherein said data call is a video call was well known in the art, as taught by Sayers.

Sayers further discloses the feature wherein said data call is a video call (see col. 13, lines 29-33), where H.245 is used for multimedia applications (e.g., videoconferencing).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Bäckström and Sayers to have the feature wherein said data call is a video call, in order to provide conventional cellular systems that have basic service with the enhanced functionality of supplementary services, as taught by Sayers (see col. 6, lines 25-30; col. 7, lines 10-13).

Regarding **claim 6**, the combination of Bäckström and Sayers discloses every limitation claimed, as applied above (see claim 1), in addition Bäckström further discloses a method according to claim 1, wherein said signaling for establishing said call hold supplementary service comprises sending empty or fill frames or supervisory data link layer frames according to said connection information to one of said call parties in order to keep a connection protocol alive (see col. 3, line 46 - col. 4, line 6), where a period of inactivity is indicated by ARQ protocol frames by continuously retransmitting a series of zeros or empty frames indicating that the frames are idle while maintaining the connection between the IWU (40) and the PSTN/ISDN network.

Regarding **claim 8**, Bäckström, as applied to claim 1 above, discloses establishing communication between mobile station (15) and remote host (65) (see Fig. 2). Bäckström does not specifically disclose having the feature wherein said signaling for establishing said call hold supplementary service comprises sending video information or audio information to one of said call parties. However, the examiner maintains that the feature wherein said signaling for establishing said call hold supplementary service comprises sending video information or audio information to one of said call parties was well known in the art, as taught by Sayers.

Sayers further discloses the feature wherein said signaling for establishing said call hold supplementary service comprises sending video information or audio information to one of said call parties (see col. 11, lines 19-23; col. 12, lines 6-29; col. 13, lines 1-55), where H.245 is used for multimedia applications (e.g., videoconferencing).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Bäckström and Sayers to have the feature wherein said signaling for establishing said call hold supplementary service comprises sending video information or audio information to one of said call parties, in order to provide conventional cellular systems that have basic service with the enhanced functionality of supplementary services, as taught by Sayers (see col. 6, lines 25-30; col. 7, lines 10-13).

Regarding **claim 9,** Bäckström, as applied to claim 8 above, discloses establishing communication between mobile station (15) and remote host (65) (see Fig. 2). Bäckström does not specifically disclose having the feature wherein said video information comprises a

still or moving video information. However, the examiner maintains that the feature wherein said video information comprises a still or moving video information was well known in the art, as taught by Sayers.

Sayers further discloses the feature wherein said video information comprises a still or moving video information (see col. 13, lines 29-33; col. 6, lines 49-52), where H.245 is used for multimedia applications (e.g., videoconferencing).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Bäckström and Sayers to have the feature wherein said video information comprises a still or moving video information, in order to provide conventional cellular systems that have basic service with the enhanced functionality of supplementary services, as taught by Sayers (see col. 6, lines 25-30; col. 7, lines 10-13).

Regarding **claim 10**, the combination of Bäckström and Sayers discloses every limitation claimed, as applied above (see claim 1), in addition Bäckström further discloses a method according to claim 1, wherein said negotiation signaling is monitored by a mobile terminal (11) connected to one (12) of said end terminals (see col. 2, lines 53-67; col. 4, line 56 - col. 5, line 8), where the mobile station (15) is connected to data terminal equipment (10) in which the mobile station (15) monitors the activity to initiate connection.

Regarding **claim 13**, Bäckström, as applied to claim 1 above, discloses establishing communication between mobile station (15) and remote host (65) (see Fig. 2). Bäckström does not specifically disclose having the feature wherein said transcoding parameter defines a type of audio and/or video codec. However, the examiner maintains that the feature wherein

said transcoding parameter defines a type of audio and/or video codec was well known in the art, as taught by Sayers.

Sayers further discloses the feature wherein said transcoding parameter (e.g., H.245) defines a type of audio and/or video codec (see col. 13, lines 29-33), where the H.245 encoder/decoder is used for multimedia applications (e.g., videoconferencing).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Bäckström and Sayers to have the feature wherein said transcoding parameter defines a type of audio and/or video codec, in order to provide conventional cellular systems that have basic service with the enhanced functionality of supplementary services, as taught by Sayers (see col. 6, lines 25-30; col. 7, lines 10-13).

Regarding claim 16, Bäckström, as applied to claim 1 above, discloses establishing communication between mobile station (15) and remote host (65) (see Fig. 2). Bäckström does not specifically disclose having the feature wherein said signaling for establishing said call transfer supplementary service comprises transmitting a codec parameter derived from said connection information to a network element having a transcoding capability, in order to provide a required transcoding function at said network element. However, the examiner maintains that the feature wherein said signaling for establishing said call transfer supplementary service comprises transmitting a codec parameter derived from said connection information to a network element having a transcoding capability, in order to provide a required transcoding function at said network element was well known in the art, as taught by Sayers.

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Sayers further discloses the feature wherein said signaling for establishing said call transfer supplementary service comprises transmitting a codec parameter derived from said connection information to a network element having a transcoding capability, in order to provide a required transcoding function at said network element (see col. 13, lines 29-33), where the H.245 encoder/decoder is used for multimedia applications (e.g., videoconferencing).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Bäckström and Sayers to have the feature wherein said signaling for establishing said call transfer supplementary service comprises transmitting a codec parameter derived from said connection information to a network element having a transcoding capability, in order to provide a required transcoding function at said network element, in order to provide conventional cellular systems that have basic service with the enhanced functionality of supplementary services, as taught by Sayers (see col. 6, lines 25-30; col. 7, lines 10-13).

Regarding claim 18, Bäckström discloses the method according to claim 1, further comprising indicating changes of call characteristics to an upper layer entity (see col. 3, lines 1-14, 35-51; col. 4, lined 8-31; Figs. 2-4), where the MSC (30) contacting an IWU (40) which adapts transmission and protocols between different communication networks and indicates changes in call characteristics such as connection request, inactivity, and identifiers, and

performing interworking in said upper layer entity (see col. 3, lines 1-14, 35-51; col. 4, lines 8-31; Figs. 2-4). Bäckström does not specifically disclose having the feature

recognizing an application level compatibility of transferred calls. However, the examiner maintains that the feature recognizing an application level compatibility of transferred calls was well known in the art, as taught by Sayers.

Sayers further discloses the feature recognizing an application level compatibility of transferred calls (see col. 11, lines 19-23; col. 12, lines 6-29; col. 13, lines 1-55), where system provides interworking functions between the networks to provide supplementary services such as allowing the H.245 encoder/decoder which is used for multimedia applications (e.g., videoconferencing).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Bäckström and Sayers to have the feature recognizing an application level compatibility of transferred calls, in order to provide conventional cellular systems that have basic service with the enhanced functionality of supplementary services, as taught by Sayers (see col. 6, lines 25-30; col. 7, lines 10-13).

Regarding **claim 19**, the combination of Bäckström and Sayers discloses every limitation claimed, as applied above (see claim 1), in addition Bäckström further discloses a method according to claim 1, wherein said signaling for establishing said supplementary service is performed by an interworking function provided in said telecommunication network (e.g., PLMN) (see col. 3, lines 1-14, 35-51; Fig. 2), where the IWU (40) provides interworking functions.

Regarding claim 20, the combination of Bäckström and Sayers discloses every limitation claimed, as applied above (see claim 1), in addition Bäckström further discloses a

method according to claim 1, wherein said telecommunication network is a mobile network. (e.g., PLMN) (see col. 3, lines 1-14, 35-51; Fig. 2).

Regarding **claim 22**, Bäckström discloses a. apparatus for providing a supplementary call service in a public telecommunication network (e.g., PLMN and PSTN) (see col. 2, lines 53-57, 61-67; Fig.1), where a request for access to data or services provided by a remote host, comprising the steps of:

a) monitoring means (34) for monitoring on a signaling path (e.g., connection) between mobile station (15) which read on the claimed "end terminals (5, 12)" a negotiation signaling for a multimedia call of respective call parties (see col. 3, lines 35-51), where a first connection is established and interworking unit monitors the call circuit connection between a data terminal equipment and an application host by examining the contents of ARQ protocol frames,

said monitoring means being comprised in an interworking function portion of one of said end terminals (see col. 4, lines 49-65; col. 5, lines 1-10; Fig. 4), where a data connection mode is initialized between the DTE (10) and the MS (15) and monitored at the MS for the data transfer and request of the call connection circuit;

- b) storing means (35) for storing connection information detected by said monitoring means (34) (see col. 4, lines 7-11), where the first or original call circuit connection is stored within the register (88) of the MSC (30),
- c) signaling means (32, 33) for generating a signaling towards at least one of said end terminals (5, 12) to establish said supplementary call service in response to said stored connection information, when said supplementary call service is invoked by one of said call

parties (see col. 4, lines 18-31), where after a period of inactivity a second call circuit is requested by a data terminal equipment, subsequently comparing the current called party identification information with one stored in the MSC register for the first call circuit connection. Bäckström does not specifically disclose having the features said connection information defining at least one of a protocol used in a multimedia call between said call parties and a transcoding parameter used in the multimedia call; wherein said supplementary call service is a call hold supplementary service or a call transfer supplementary service. However, the examiner maintains that the features said connection information defining at least one of a protocol used in a multimedia call between said call parties and a transcoding parameter used in the multimedia call; wherein said supplementary call service is a call hold supplementary service or a call transfer supplementary call service is a call hold supplementary service or a call transfer supplementary service was well known in the art, as taught by Sayers.

Sayers further discloses the features said connection information defining at least one of a protocol used in a multimedia call between said call parties and a transcoding parameter used in the multimedia call (see col. 11, lines 19-23; col. 12, lines 6-29; col. 13, lines 1-55), where RIL3-CC, H.245, and SMS-PP provide transcoding parameters;

wherein said supplementary call service is a call hold supplementary service or a call transfer supplementary service (see col. 11, lines 19-23; col. 12, lines 6-29).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Bäckström and Sayers to have the features said connection information defining at least one of a protocol used in a multimedia call between said call parties and a transcoding parameter used in the multimedia call;

wherein said supplementary call service is a call hold supplementary service or a call transfer supplementary service, in order to provide conventional cellular systems that have basic service with the enhanced functionality of supplementary services, as taught by Sayers (see col. 6, lines 25-30; col. 7, lines 10-13).

Regarding claims 23, 25, and 28, the claims are rejected for the same reasons as applied to claim 22 and as set forth above in the rejections of claims 6, 8, and 18 respectively.

Regarding **claim 29**, the combination of Bäckström and Sayers discloses every limitation claimed, as applied above (see claim 1), in addition Bäckström further discloses an apparatus according to claim 23, wherein said apparatus is a mobile terminal (11) connected to one (12) of said end terminals (see Fig. 2), where the mobile station (15) is connected to the data terminal equipment (10).

Regarding **claim 30**, the combination of Bäckström and Sayers discloses every limitation claimed, as applied above (see claim 1), in addition Bäckström further discloses an apparatus according to claim 22, wherein said apparatus is an interworking unit (31) (see Fig. 2), where the interworking unit (40 IWU) provides interworking functions.

Regarding **claim 31**, Bäckström discloses a method for providing a supplementary call service in a public telecommunication network (e.g., PLMN and PSTN) (see col. 2, lines 53-57, 61-67; Fig.1), where a request for access to data or services provided by a remote host, comprising the steps of:

a) monitoring on a signaling path (e.g., connection) between mobile station (15) which read on the claimed "end terminals (5, 12)" a negotiation signaling for a multimedia call of

respective call parties (see col. 3, lines 35-51), where a first connection is established and interworking unit monitors the call circuit connection between a data terminal equipment and an application host by examining the contents of ARQ protocol frames,

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said monitoring step being executed in an interworking function portion of a mobile switching center (30) of the telecommunication network (see col. 8, lines 1-15; col. 4, lines 49-65; col. 5, lines 1-10; Figs. 2 and 4), where a data connection mode is initialized between the DTE (10) and the MS (15) and monitored at the MSC (30) in connection with the IWU (40);

b) storing connection information detected in said monitoring step (see col. 4, lines 7-11), where the first or original call circuit connection is stored within the register (88) of the MSC (30),

c) using said detected connection information to generate a signaling towards at least one of said end terminals (5, 12) to establish said supplementary call service, when said supplementary call service is invoked by one of said call parties (see col. 4, lines 18-31), where after a period of inactivity a second call circuit is requested by a data terminal equipment, subsequently comparing the current called party identification information with one stored in the MSC register for the first call circuit connection. Bäckström does not specifically disclose having the features said connection information defining at least one of a protocol used in the multimedia call between said call parties and a transcoding parameter used in the multimedia call; wherein said supplementary call service is a call hold supplementary service or a call transfer supplementary service. However, the examiner maintains that the features said connection information defining at least one of a protocol

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used in the multimedia call between said call parties and a transcoding parameter used in the multimedia call; wherein said supplementary call service is a call hold supplementary service or a call transfer supplementary service was well known in the art, as taught by Sayers.

Sayers further discloses the features said connection information defining at least one of a protocol used in the multimedia call between said call parties and a transcoding parameter used in the multimedia call (see col. 11, lines 19-23; col. 12, lines 6-29; col. 13, lines 1-55), where RIL3-CC, H.245, and SMS-PP provide transcoding parameters; wherein said supplementary call service is a call hold supplementary service or a call transfer supplementary service (see col. 11, lines 19-23; col. 12, lines 6-29).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Bäckström and Sayers to have the features said connection information defining at least one of a protocol used in the multimedia call between said call parties and a transcoding parameter used in the multimedia call; wherein said supplementary call service is a call hold supplementary service or a call transfer supplementary service, in order to provide conventional cellular systems that have basic service with the enhanced functionality of supplementary services, as taught by Sayers (see col. 6, lines 25-30; col. 7, lines 10-13).

Regarding **claim 32**, Bäckström discloses an apparatus for providing a supplementary call service in a public telecommunication network (e.g., PLMN and PSTN) (see col. 2, lines 53-57, 61-67; Fig.1), where a request for access to data or services provided by a remote host, comprising the steps of:

a) monitoring means (34) for monitoring on a signaling path (e.g., connection) between mobile station (15) which read on the claimed "end terminals (5, 12)" a negotiation signaling for a multimedia call of respective call parties (see col. 3, lines 35-51), where a first connection is established and interworking unit monitors the call circuit connection between a data terminal equipment and an application host by examining the contents of ARQ protocol frames,

said monitoring means being comprised in an interworking function portion of a mobile switching center (30) of the telecommunication network (see col. 8, lines 1-15; col. 4, lines 49-65; col. 5, lines 1-10; Figs. 2 and 4), where a data connection mode is initialized between the DTE (10) and the MS (15) and monitored at the MSC (30) in connection with the IWU (40);

- b) storing means (35) for storing connection information detected by said monitoring means (34) (see col. 4, lines 7-11), where the first or original call circuit connection is stored within the register (88) of the MSC (30),
- c) signaling means (32, 33) for generating a signaling towards at least one of said end terminals (5, 12) to establish said supplementary call service in response to said stored connection information, when said supplementary call service is invoked by one of said call parties (see col. 4, lines 18-31), where after a period of inactivity a second call circuit is requested by a data terminal equipment, subsequently comparing the current called party identification information with one stored in the MSC register for the first call circuit connection. Bäckström does not specifically disclose having the features said connection information defining at least one of a protocol used in the multimedia call between said call

parties and a transcoding parameter used in the multimedia call; wherein said supplementary call service is a call hold supplementary service or a call transfer supplementary service.

However, the examiner maintains that the features said connection information defining at least one of a protocol used in a multimedia call between said call parties and a transcoding parameter used in the multimedia call; wherein said supplementary call service is a call hold supplementary service or a call transfer supplementary service was well known in the art, as taught by Sayers.

Sayers further discloses the features said connection information defining at least one of a protocol used in a multimedia call between said call parties and a transcoding parameter used in the multimedia call (see col. 11, lines 19-23; col. 12, lines 6-29; col. 13, lines 1-55), where RIL3-CC, H.245, and SMS-PP provide transcoding parameters;

wherein said supplementary call service is a call hold supplementary service or a call transfer supplementary service (see col. 11, lines 19-23; col. 12, lines 6-29).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Bäckström and Sayers to have the features said connection information defining at least one of a protocol used in a multimedia call between said call parties and a transcoding parameter used in the multimedia call; wherein said supplementary call service is a call hold supplementary service or a call transfer supplementary service, in order to provide conventional cellular systems that have basic service with the enhanced functionality of supplementary services, as taught by Sayers (see col. 6, lines 25-30; col. 7, lines 10-13).

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Claims 7 and 24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bäckström (US 5,903,851) in view of Sayers et al. (hereinafter Sayers) (US 6,539,237 B1) as applied to claim 1 above, and further in view of Rasmussen (US 6,088,600).

Regarding claim 7, the combination of Bäckström and Sayers discloses every limitation claimed, as applied above (see claim 1), in addition Bäckström teaches of a timer (112) for measuring periods (see col. 4, lines 42-45) releasing the radio link between the MCS and MS and maintaining a connection between the MS and DTE to avoid having the DTE lose synchronization (see col. 4, lines 49-63). The combination of Bäckström and Sayers does not specifically disclose having the feature stopping resynchronization attempts towards one of said call parties and stopping a related timer in order to prevent a call failure. However, the examiner maintains that the feature stopping resynchronization attempts towards one of said call parties and stopping a related timer in order to prevent a call failure was well known in the art, as taught by Rasmussen.

In the same field of endeavor, Rasmussen discloses the feature stopping resynchronization attempts towards one of said call parties (see col. 6, lines 11-53) and stopping a related timer in order to prevent a call failure (see col. 4, lines 35-63).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Bäckström, Sayers, and Rasmussen to have the feature stopping resynchronization attempts towards one of said call parties and stopping a related timer in order to prevent a call failure, in order to provide discontinuous transmission of a data call in a circuit-switched data environment, as taught by Rasmussen (see col. 1, line 62 - col. 2, line 7).

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Regarding **claim 24**, the claims are rejected for the same reasons as applied to claim 22 and as set forth above in the rejection of claim 7.

Claims 14-15 and 26-27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bäckström (US 5,903,851) in view of Sayers et al. (hereinafter Sayers) (US 6,539,237 B1) as applied to claim 1 and 22 above, and further in view of Gerszberg et al. (hereinafter Gerszberg) (US 6,424,646 B1).

Regarding claim 14, the combination of Bäckström and Sayers discloses every limitation claimed, as applied above (see claim 1). The combination of Bäckström and Sayers does not specifically disclose having the feature wherein said signaling for establishing said call transfer supplementary service comprises a fallback signaling for converting a connection to one of said call parties into a speech mode. However, the examiner maintains that the feature wherein said signaling for establishing said call transfer supplementary service comprises a fallback signaling for converting a connection to one of said call parties into a speech mode was well known in the art, as taught by Gerszberg.

In the same field of endeavor, Gerszberg discloses the feature wherein said signaling for establishing said call transfer supplementary service comprises a fallback signaling for converting a connection to one of said call parties into a speech mode (see col. 7, lines 6-17), where voice communications are ensured despite a failure of the digital data link.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Bäckström, Sayers, and Gerszberg to have the feature wherein said signaling for establishing said call transfer supplementary

service comprises a fallback signaling for converting a connection to one of said call parties into a speech mode, in order to provide services to an end user by multiplexing and coordinating many digital services onto a single line, as taught by Gerszberg (see col. 2, lines 12-24).

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Regarding claim 15, the combination of Bäckström and Sayers discloses every limitation claimed, as applied above (see claim 14). The combination of Bäckström and Sayers does not specifically disclose having the feature wherein said fallback signaling is performed towards both call parties, if said connection information indicates that two data calls cannot be adapted. However, the examiner maintains that the feature wherein said fallback signaling is performed towards both call parties, if said connection information indicates that two data calls cannot be adapted was well known in the art, as taught by Gerszberg.

Gerszberg further discloses the feature wherein said fallback signaling is performed towards both call parties, if said connection information indicates that two data calls cannot be adapted (see col. 7, lines 6-17), where voice communications are ensured despite a failure of the digital data link.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Bäckström, Sayers, and Gerszberg to have the feature wherein said fallback signaling is performed towards both call parties, if said connection information indicates that two data calls cannot be adapted, in order to provide services to an end user by multiplexing and coordinating many digital services onto a single line, as taught by Gerszberg (see col. 2, lines 12-24).

Regarding **claim 26**, the claims are rejected for the same reasons as applied to claim 22 and as set forth above in the rejection of claim 14.

Regarding **claim 27**, the claims are rejected for the same reasons as applied to claim 26 and as set forth above in the rejection of claim 16.

Claim 17 is rejected under 35 U.S.C. 103(a) as being unpatentable over Bäckström (US 5,903,851) in view of Sayers et al. (hereinafter Sayers) (US 6,539,237 B1) as applied to claim 16 and 22 above, and further in view of Hämäläinen et al. (hereinafter Hämäläinen) (WO 99/41920) and Gerszberg et al. (hereinafter Gerszberg) (US 6,424,646 B1).

Regarding claim 17, the combination of Bäckström and Sayers discloses every limitation claimed, as applied above (see claim 16). The combination of Bäckström and Sayers does not specifically disclose having the feature wherein said codec parameter is transmitted to said network element, if a fallback signaling to one of said call parties has failed. However, the examiner maintains that the feature wherein said codec parameter is transmitted to said network element was well known in the art, as taught by Hämäläinen.

In the same field of endeavor, Hämäläinen discloses the feature wherein said codec parameter is transmitted to said network element (e.g., mobile services switching centre) (see pg. 11, line 1 - pg. 12, line 13; pg. 13, lines 1-24), where the multimedia parameters for multimedia services are transmitted to the mobile services switching centre to request speech or data service. The mobile services switching centre acknowledges receipt of the multimedia parameters.

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Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Bäckström, Sayers, and Hämäläinen to have the feature wherein said codec parameter is transmitted to said network element, in order to improve the efficiency of data transmission between communication devices so that the properties of the receiving device are taken into account, as taught by Hämäläinen (see pg. 4, line 26-31). The combination of Bäckström, Sayers, and Hämäläinen does not specifically disclose having the feature if a fallback signaling to one of said call parties has failed. However, the examiner maintains that the feature if a fallback signaling to one of said call parties has failed was well known in the art, as taught by Gerszberg.

Gerszberg further discloses the feature if a fallback signaling to one of said call parties has failed (see col. 7, lines 6-17), where voice communications are ensured despite a failure of the digital data link.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Bäckström, Sayers, Hämäläinen, and Gerszberg to have the feature if a fallback signaling to one of said call parties has failed, in order to provide services to an end user by multiplexing and coordinating many digital services onto a single line, as taught by Gerszberg (see col. 2, lines 12-24).

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Claim 21 is rejected under 35 U.S.C. 103(a) as being unpatentable over Bäckström (US 5,903,851) in view of Sayers et al. (hereinafter Sayers) (US 6,539,237 B1) as applied to claim 1 above, and further in view of Bressler (US 6,584,190 B1).

Regarding claim 21, the combination of Bäckström and Sayers discloses every limitation claimed, as applied above (see claim 1). The combination of Bäckström and Sayers does not specifically disclose having the feature wherein said connection information is at least partly received through an outband signaling. However, the examiner maintains that the feature wherein said connection information is at least partly received through an outband signaling was well known in the art, as taught by Bressler.

In the same field of endeavor, Bressler discloses the feature wherein said connection information is at least partly received through an outband signaling (see col. 3, lines 14-23), where .

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Bäckström, Sayers, and Bressler to have the feature wherein said connection information is at least partly received through an outband signaling, in order to provide additional services, as taught by Bressler (see col. 1, lines 21-24; col. 2, lines 1-3).

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# Response to Arguments

6. Applicant's arguments filed 28 November 2005 have been fully considered but they are not persuasive.

The Examiner respectfully disagrees with applicant's arguments as the applied reference(s) provide more than adequate support and to further clarify (see the above claims and comments in this section).

7. In response to applicant's arguments, the recitation "...public telecommunication network..." has not been given patentable weight because the recitation occurs in the preamble. A preamble is generally not accorded any patentable weight where it merely recites the purpose of a process or the intended use of a structure, and where the body of the claim does not depend on the preamble for completeness but, instead, the process steps or structural limitations are able to stand alone. See *In re Hirao*, 535 F.2d 67, 190 USPQ 15 (CCPA 1976) and *Kropa v. Robie*, 187 F.2d 150, 152, 88 USPQ 478, 481 (CCPA 1951).

#### **Conclusion**

- 8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
  - a. Gerszberg et al. (US 6,020,916) discloses "Videophone Multimedia Interactive On-Hold Information Menus".
- 9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Willie J. Daniel, Jr. whose telephone number is (571) 272-7907. The examiner can normally be reached on 8:30-4:30.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Marsha D. Banks-Harold can be reached on (571) 272-7905. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Marsha D Bank-Harold

MARSHA D. BANKS-MATTING SUPERVISORY PATELLY BY TECHNOLOGY CAIN. 20 10000

WJD,JR 20 April 2006